NC STATE UNIVERSITY

Comparative Medicine Institute

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Use of Advanced Diagnostics to Improve Antimicrobial Use

Research emphasis:

My primary research interests focus on reducing antimicrobial resistance and antibiotic overuse in the global setting. I am currently studying the epidemiology of acute respiratory tract infections and the use of novel diagnostics to reduce antibiotic overuse in Sri Lanka. Other projects focus on building a network of antimicrobial stewardship programs in Sri Lanka and expanding to other sites in Asia/ Africa as well as studying the transmission of antimicrobial-resistant pathogens between animals, humans, and the environment.

Application:

- Acute respiratory tract infections
- Diagnostics
- Acute febrile illness

Collaboration potential:

- Acute respiratory tract infections
- Antimicrobial stewardship/ diagnostics
- Transmission of antimicrobial-resistant organisms between humans, animals, environment

Selected publications: (limit 4)

- Shapiro D, Bodinayake CK, Nagahawatte A, Devasiri V, Kurukulasooriya R, Hsiang J, Nicholson B, De Silva AD, Ostbye T, Reller ME, Woods CW, **Tillekeratne LG**. Burden and Seasonality of Viral Acute Respiratory Tract Infections Among Outpatients in Southern Sri Lanka. Am J Trop Med. 2017 Jul; 97(1): 88-96.
- **Tillekeratne LG**, Bodinayake CK, Nagahawatte, A, Vidanagama, D, Devasiri, V, Kodikara Arachchi, W, Kurukulasooriya, R, De Silva, D, Ostbye, T, Reller ME, Woods, CW. Use of Rapid Influenza Testing to Reduce Antibiotic Prescriptions Among Outpatients with Influenza-Like Illness in Southern Sri Lanka. Am J Trop Med Hyg. Aug 17 2015. PMID: 26283748.
- **Tillekeratne, LG**, Linkin, DR, Obino, M, Omar, A, Wanjiku, M, Holtzman, D, Cohn, J. A multifaceted intervention to reduce rates of catheter-associated urinary tract infections in a resource-limited setting. Am J Infect Control. Vol 42: 1, 12-6, 2014.